

In the Claims:

Please cancel claims 1-20.

1 21. [New] A data storage system comprising:
2 storage circuitry configured to store digital data;
3 a plurality of components coupled with the storage circuitry and
4 configured to communicate transactions with respect to one another and to
5 process the transactions to effect operations with respect to storage of digital
6 data using the storage circuitry; and
7 wherein at least one of the components is configured to detect a
8 presence of a fault in a transaction communicated from an other of the
9 components, and to disable communication of subsequent transactions from the
10 other component to the one component after the detection of the transaction
11 including the fault from the other component.

1 22. [New] The system of claim 21 wherein the one component is
2 configured to not process the transaction including the fault.

1 23. [New] The system of claim 21 wherein the storage circuitry
2 comprises a plurality of redundant storage circuits configured to redundantly
3 store digital data.

1 24. [New] The system of claim 23 wherein the components comprise a
2 plurality of mirror circuits individually configured to effect storage operations
3 with respect to both of the storage circuits.

1 25. [New] The system of claim 21 wherein the one component is
2 configured to disable an interface in communication with the other component
3 to disable the communication of the subsequent transactions.

1 26. [New] The system of claim 21 wherein the one component is
2 configured to communicate and process transactions with respect to an
3 additional component after the disablement of the communication of the
4 subsequent transactions.

1 27. [New] The system of claim 21 wherein at least one of the
2 subsequent transactions does not include a fault.

1 28. [New] A redundant data storage system ^{iv}
2 storage circuitry comprising a plurality of redundant storage circuits
3 configured to redundantly store digital data; and
4 a plurality of components coupled with the storage circuitry and the
5 components are configured to communicate transactions with respect to one
6 another and to process received transactions to effect operations with respect to
7 storage of digital data using the redundant storage circuits, wherein the
8 components are individually configured to identify transactions which include a
9 fault, and to prevent processing of the transactions which have been identified
10 as including a fault using the respective individual component.

1 29. [New] The system of claim 28 wherein the transactions which
2 include a fault are communicated from at least one of the components, and
3 others of the components are configured to disable communications with
4 respect to the one component to prevent the processing.

1 30. [New] The system of claim 29 wherein the others of the
2 components are individually configured to disable a respective interface coupled
3 with the one component to disable the communications.

1 31. [New] The system of claim 28 wherein the transactions for which
2 processing was prevented would have otherwise been processed by recipient
3 components.

1 32. [New] The system of claim 28 wherein the components are
2 individually configured to prevent the respective processing responsive to the
3 identification.

1 33. [New] The system of claim 28 wherein at least one of the
2 components is configured to identify at least one of the transactions including a
3 fault as being communicated from an other of the components and to prevent
4 processing of subsequent transactions communicated from the other component
5 after the identifying.


1 34. [New] The system of claim 33 wherein the one component is
2 configured to process transactions from additional ones of the components after
3 the identifying.

1 35. [New] A redundant data storage system comprising:
2 means for redundantly storing digital data;
3 plural means for processing transactions for effecting operations with
4 respect to the redundant storage of digital data; and
5 wherein one of the means for processing is identified responsive to
6 communication of a transaction including a fault from the one means for
7 processing, and wherein subsequent transactions communicated from the
8 identified means for processing which would otherwise be processed are not
9 processed by at least one other of the means for processing responsive to the
10 identification.

1 36. [New] The system of claim 35 wherein the subsequent
2 transactions individually do not include a fault.

1 37. [New] The system of claim 35 wherein the other means for
2 processing comprises means for disabling communications with respect to the
3 one means for processing responsive to the identification.

1 38. [New] The system of claim 35 wherein the other means for
2 processing comprises means for processing transactions of additional means for
3 processing after the identification.

1 39. [New] A data storage method comprising: 
2 storing digital data using a data storage system;
3 communicating a plurality of transactions intermediate a plurality of
4 components of the data storage system;
5 processing the transactions using the components;
6 using the components, effecting operations with respect to storage of
7 digital data responsive to the processing;
8 identifying one of the transactions from one of the components as
9 including a fault; and
10 disabling communications of others of the transactions from the one
11 component responsive to the identifying.

1 40. [New] The method of claim 39 wherein the storing digital data
2 comprises redundantly storing digital data using a plurality of redundant storage
3 circuits of the data storage system.

1 41. [New] The method of claim 39 wherein the disabling comprises
2 disabling respective interfaces of the other components responsive to the
3 identifying.

1 42. [New] The method of claim 39 further comprising processing
2 transactions using the other components after the disabling.

1 43. [New] The method of claim 39 wherein the disabling comprises
2 disabling communications of at least one of the others of the transactions not
3 including a fault.

1 44. [New] A data storage method comprising: §
2 storing digital data using storage circuitry of a data storage system;
3 providing a plurality of redundant components of the data storage system
4 and individually configured to effect data storage operations of the storage
5 circuitry;
6 identifying corruption of one of the components;
7 isolating the one of the components responsive to the identifying; and
8 after the isolating, providing redundant functionality of the isolated
9 component using a redundant one of the components corresponding to the
10 isolated component.

1 45. [New] The method of claim 44 wherein the storing digital data
2 comprises redundantly storing the digital data using a plurality of redundant
3 storage circuits.

1 46. [New] The method of claim 44 where the providing redundant
2 functionality comprises providing a transaction using the redundant component
3 and corresponding to an isolated transaction of the isolated component.

1 47. [New] The method of claim 44 wherein the redundant component
2 provides the same functionality as functionality of the isolated component.

1 48. [New] The method of claim 44 wherein the isolating comprises
2 preventing processing of transactions from the isolated component which would
3 have otherwise been processed.

1 49. [New] The method of claim 44 wherein the isolating comprises
2 disabling communications of others of the components with respect to the
3 isolated component.

1 50. [New] The method of claim 44 wherein the isolating comprises
2 disabling at least some communications from the isolated component.

1 51. [New] The method of claim 50 wherein the at least some
2 communications individually do not include a fault.